2 Docket No.: 56972(303842)

Application No. 10/049,986 Amendment dated November 18, 2008 Office Action of August 20, 2008

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior listings and versions thereof.

- 1-29. (Cancelled).
- 30. (Currently amended) A method for proliferating a hepatitis C virus comprising the steps of:

providing a radial flow bioreactor which contains in a culture vessel as a main body thereof a porous carrier carrying an immobilized human hepatocyte thereon, which bioreactor can generate a continuous stream of a culture medium in radial direction in said vessel:

infecting said human hepatocyte with a hepatitis C virus, an infectious clone RNA thereof, or a combination thereof:

culturing said human hepatocyte by maintaining a stream of the culture medium in radial direction in said vessel, thereby proliferating the hepatitis C virus in said human hepatocyte,

wherein said infection of hepatitis C virus is carried out by adding hepatitis C virus to said culture medium, and said method further comprises the following steps: circulating the culture medium without supplying fresh medium after adding hepatitis C virus into said culture medium; stopping circulation of the culture medium for 2 to 10 hours; and circulating the culture medium without supplying fresh medium for 6 to 48 hours.

 (Currently amended) A method for proliferating a hepatitis C virus comprising the steps of:

providing a radial flow bioreactor which contains in a culture vessel as a main body thereof a porous carrier carrying an immobilized human hepatocyte thereon, which bioreactor can generate a continuous stream of a culture medium in radial direction in said vessel;

infecting said human hepatocyte with a hepatitis C virus, an infectious clone RNA thereof, or a combination thereof:

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hepatocyte.

culturing said human hepatocyte by maintaining a stream of the culture medium in radial direction in said vessel, thereby proliferating the hepatitis C virus in said human

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wherein said infection of hepatitis C virus is carried out by adding hepatitis C virus to said culture medium, and said method further comprises the step of increasing a supply rate of fresh medium and a supply rate of oxygen to 1.5-fold to 2.5-fold for 30 minutes to 2 hours immediately prior to the addition of before adding hepatitis C virus to said culture medium.

- 32. (Previously presented) The method according to any one of claims 30 or 31, wherein the carrier is a particulate porous carrier.
- (Previously presented) The method according to any one of claims 30 or
 wherein the human hepatocyte is of an established cell line.
- (Previously presented) The method according to claim 33, wherein the established cell line is the FLC-4 line (FERM BP-5165).
- (Previously presented) The method according to any one of claims 30 or
 wherein the human hepatocyte proliferates in three dimensions.